Key Features

- Continuous current up to 250 A
- Suitable for voltage levels up to 800 VDC
- High peak current carrying capability up to 6000 A [1)]

Typical Applications

- DC high voltage high current applications
- Main contactors for hybrid, full battery electric vehicles and fuel cell cars
- Battery charging systems

Contact Data

Contact arrangement:
1 Form X (NO DM)

Rated voltage:
800 VDC

Limiting cont. current at 85 °C:
250 A

Limiting making / breaking current:
250 A / 50 A (>50,000 ops.)

Short term current rating:
(1 min) 600 A

Short circuit carry current:
(25 ms) 6,000 A

Operate / release time max. (typ.):
25 ms at 14 VDC (coil voltage)

Coil Data

Rated coil voltage / power:
12 VDC, 24 VDC

Rated coil power (+23 °C):
1.0 W min. (single coil), 0.57 W (12 V dual coil), 0.8W (24 V dual coil) [2),]

Coil resistance (+23 °C):
4 Ω (single coil), 3.2 / 28 Ω (12 V dual coil), 5 / 80 Ω (24 V dual coil)

Coil Data

Ambient temperature:
-40 °C to +85 °C

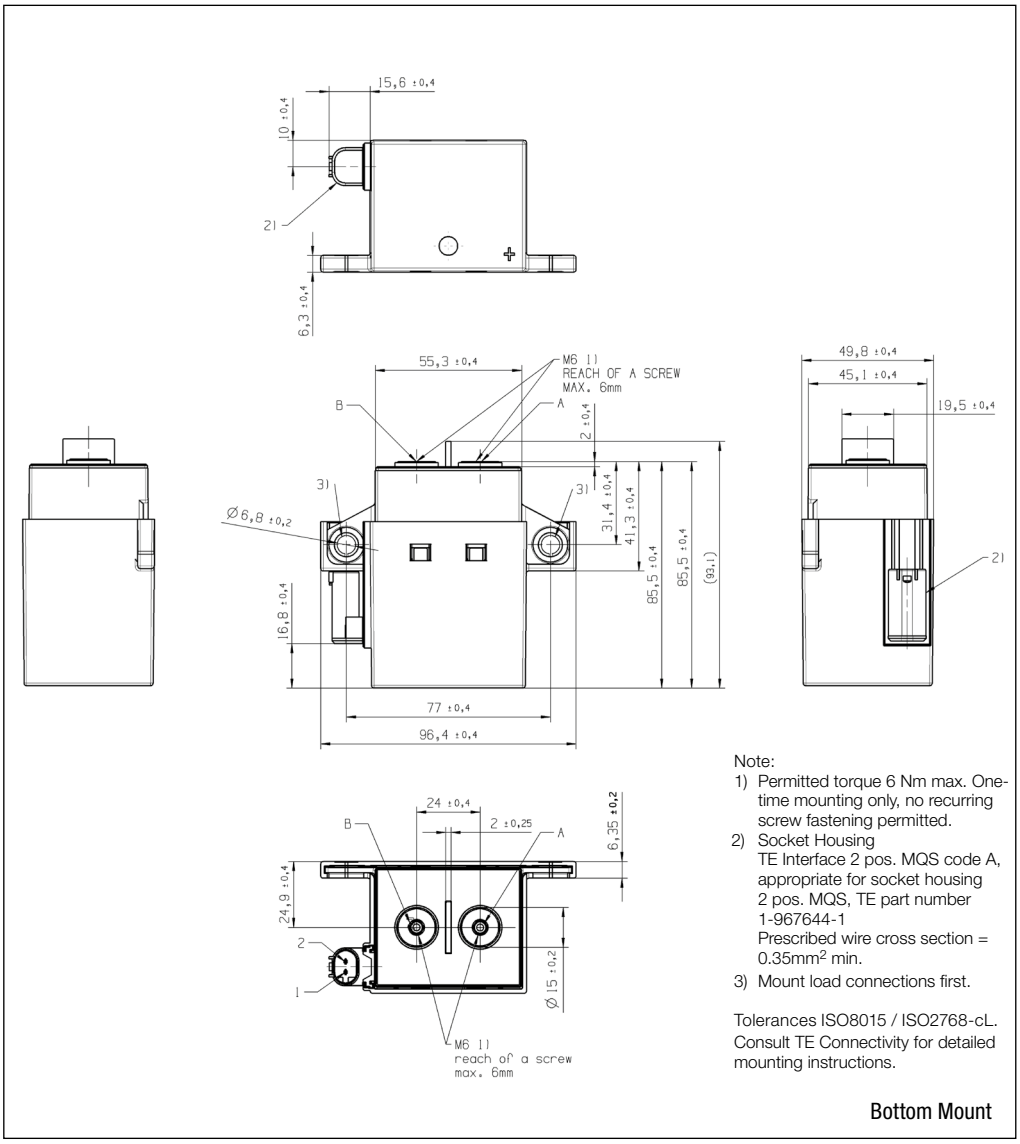
Category and degree of protection:
dustproof, IP 50 (upright); IP54 [3)] (others)

Terminal type and mounting:
Connector (coil) /M6 bolts (load); screws

Dimensions LxWxH (approx.):
93.1 x 55.3 x 49.8 mm (3.7 x 2.2 x 2.0")

Weight (approx.):
approx. 560 g (19.7 oz)

EVC 250-800 Main Contactor



Note:
1) Permitted torque 6 Nm max. One-time mounting only, no recurring screw fastening permitted.
2) Socket Housing
TE Interface 2 pos. MQS code A, appropriate for socket housing 2 pos. MQS, TE part number 1-967644-1
Prescribed wire cross section = 0.35mm² min.
3) Mount load connections first.

Tolerances ISO8015 / ISO2768-cL. Consult TE Connectivity for detailed mounting instructions.

Bottom Mount

Ordering Information EVC 250-800 Main Contactor

Product Code	Arrangement	Coil (VDC)	Econo-mization	Coil Suppr.	Rated Voltage (VDC)	Terminal Type	Mounting	Resis-tance	Part Number
V23720-M0101-M001	1 form X (NO DM)	12	External economizer	tbd	800	Connector/ Screws	Side	4 Ω Single coil	4-1904129-0
V23720-M0102-M001	1 form X (NO DM)	12	Dual coil int. switch	tbd	800	Connector/ Screws	Side	3 / 36 Ω Dual coil	4-1904129-1
V23720-M0112-M001	1 form X (NO DM)	24	Dual coil int. switch	tbd	800	Connector/ Screws	Side	3 / 36 Ω Dual coil	4-1904130-3

1) Values are influenced by system temperature and load current. Consult TE Connectivity for details.
2) Valid for 23°C coil temperature with active economization.
3) Protection class applicable for all mounting orientations except load terminals on top.